# RAW SEQUENCE LISTING

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Application Serial Number: _____ 10/511,273 _____
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PATENT APPLICATION:   US/10/511,273     TIME: 14:17:15

Input Set : A:\260449US0XPCT.txt
Output Set: N:\CRF4\08042005\J511273.raw

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 3 <110> APPLICANT: KOSMATOPOULOS, KOSTAS
 4         ALVES, PEDRO
 6 <120> TITLE OF INVENTION: EPHA2 ANTIGEN T EPITOPES
 8 <130> FILE REFERENCE: 260449US0XPCT
10 <140> CURRENT APPLICATION NUMBER: 10/511,273
11 <141> CURRENT FILING DATE: 2004-10-21
13 <150> PRIOR APPLICATION NUMBER: PCT/FR03/01280
14 <151> PRIOR FILING DATE: 2003-04-23
16 <150> PRIOR APPLICATION NUMBER: FR 02/05048
17 <151> PRIOR FILING DATE: 2002-04-23
19 <160> NUMBER OF SEQ ID NOS: 10
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 976
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
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35              20                  25                  30
38 Asp Phe Ala Ala Ala Gly Gly Glu Leu Gly Trp Leu Thr His Pro Tyr
39          35                  40                  45
42 Gly Lys Gly Trp Asp Leu Met Gln Asn Ile Met Asn Asp Met Pro Ile
43      50                  55                  60
46 Tyr Met Tyr Ser Val Cys Asn Val Met Ser Gly Asp Gln Asp Asn Trp
47 65                  70                  75                  80
50 Leu Arg Thr Asn Trp Val Tyr Arg Gly Glu Ala Glu Arg Ile Phe Ile
51              85                  90                  95
54 Glu Leu Lys Phe Thr Val Arg Asp Cys Asn Ser Phe Pro Gly Gly Ala
55              100                 105                 110
58 Ser Ser Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Ala Glu Ser Asp Leu
59              115                 120                 125
62 Asp Tyr Gly Thr Asn Phe Gln Lys Arg Leu Phe Thr Lys Ile Asp Thr
63      130                 135                 140
66 Ile Ala Pro Asp Glu Ile Thr Val Ser Ser Asp Phe Glu Ala Arg His
67 145                 150                 155                 160
70 Val Lys Leu Asn Val Glu Glu Arg Ser Val Gly Pro Leu Thr Arg Lys
71              165                 170                 175
74 Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Val Ala Leu Leu
75              180                 185                 190
78 Ser Val Arg Val Tyr Tyr Lys Lys Cys Pro Glu Leu Leu Gln Gly Leu
79              195                 200                 205
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83      210             215             220
86  Thr Val Ala Gly Thr Cys Val Asp His Ala Val Val Pro Pro Gly Gly
87  225             230             235             240
90  Glu Glu Pro Arg Met His Cys Ala Val Asp Gly Glu Trp Leu Val Pro
91              245             250             255
94  Ile Gly Gln Cys Leu Cys Gln Ala Gly Tyr Glu Lys Val Glu Asp Ala
95              260             265             270
98  Cys Gln Ala Cys Ser Pro Gly Phe Phe Lys Phe Glu Ala Ser Glu Ser
99          275             280             285
102 Pro Cys Leu Glu Cys Pro Glu His Thr Leu Pro Ser Pro Glu Gly Ala
103         290             295             300
106 Thr Ser Cys Glu Cys Glu Glu Gly Phe Phe Arg Ala Pro Gln Asp Pro
107 305             310             315             320
110 Ala Ser Met Pro Cys Thr Arg Pro Pro Ser Ala Pro His Tyr Leu Thr
111             325             330             335
114 Ala Val Gly Met Gly Ala Lys Val Glu Leu Arg Trp Thr Pro Pro Gln
115             340             345             350
118 Asp Ser Gly Gly Arg Glu Asp Ile Val Tyr Ser Val Thr Cys Glu Gln
119             355             360             365
122 Cys Trp Pro Glu Ser Gly Glu Cys Gly Pro Cys Glu Ala Ser Val Arg
123         370             375             380
126 Tyr Ser Glu Pro Pro His Gly Leu Thr Arg Thr Ser Val Thr Val Ser
127 385             390             395             400
130 Asp Leu Glu Pro His Met Asn Tyr Thr Phe Thr Val Glu Ala Arg Asn
131             405             410             415
134 Gly Val Ser Gly Leu Val Thr Ser Arg Ser Phe Arg Thr Ala Ser Val
135             420             425             430
138 Ser Ile Asn Gln Thr Glu Pro Pro Lys Val Arg Leu Glu Gly Arg Ser
139             435             440             445
142 Thr Thr Ser Leu Ser Val Ser Trp Ser Ile Pro Pro Pro Gln Gln Ser
143         450             455             460
146 Arg Val Trp Lys Tyr Glu Val Thr Tyr Arg Lys Lys Gly Asp Ser Asn
147 465             470             475             480
150 Ser Tyr Asn Val Arg Arg Thr Glu Gly Phe Ser Val Thr Leu Asp Asp
151             485             490             495
154 Leu Ala Pro Asp Thr Thr Tyr Leu Val Gln Val Gln Ala Leu Thr Gln
155         500             505             510
158 Glu Gly Gln Gly Ala Gly Ser Lys Val His Glu Phe Gln Thr Leu Ser
159         515             520             525
162 Pro Glu Gly Ser Gly Asn Leu Ala Val Ile Gly Gly Val Ala Val Gly
163     530             535             540
166 Val Val Leu Leu Leu Val Leu Ala Gly Val Gly Phe Phe Ile His Arg
167 545             550             555             560
170 Arg Arg Lys Asn Gln Arg Ala Arg Gln Ser Pro Glu Asp Val Tyr Phe
171             565             570             575
174 Ser Lys Ser Glu Gln Leu Lys Pro Leu Lys Thr Tyr Val Asp Pro His
175         580             585             590
178 Thr Tyr Glu Asp Pro Asn Gln Ala Val Leu Lys Phe Thr Thr Glu Ile
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179         595                    600                    605
182 His Pro Ser Cys Val Thr Arg Gln Lys Val Ile Gly Ala Gly Glu Phe
183         610                    615                    620
186 Gly Glu Val Tyr Lys Gly Met Leu Lys Thr Ser Ser Gly Lys Lys Glu
187 625                    630                    635                    640
190 Val Pro Val Ala Ile Lys Thr Leu Lys Ala Gly Tyr Thr Glu Lys Gln
191                    645                    650                    655
194 Arg Val Asp Phe Leu Gly Glu Ala Gly Ile Met Gly Gln Phe Ser His
195                    660                    665                    670
198 His Asn Ile Ile Arg Leu Glu Gly Val Ile Ser Lys Tyr Lys Pro Met
199         675                    680                    685
202 Met Ile Ile Thr Glu Tyr Met Glu Asn Gly Ala Leu Asp Lys Phe Leu
203         690                    695                    700
206 Arg Glu Lys Asp Gly Glu Phe Ser Val Leu Gln Leu Val Gly Met Leu
207 705                    710                    715                    720
210 Arg Gly Ile Ala Ala Gly Met Lys Tyr Leu Ala Asn Met Asn Tyr Val
211                    725                    730                    735
214 His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Asn Ser Asn Leu Val
215                    740                    745                    750
218 Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Val Leu Glu Asp Asp Pro
219         755                    760                    765
222 Glu Ala Thr Tyr Thr Thr Ser Gly Gly Lys Ile Pro Ile Arg Trp Thr
223         770                    775                    780
226 Ala Pro Glu Ala Ile Ser Tyr Arg Lys Phe Thr Ser Ala Ser Asp Val
227 785                    790                    795                    800
230 Trp Ser Phe Gly Ile Val Met Trp Glu Val Met Thr Tyr Gly Glu Arg
231                    805                    810                    815
234 Pro Tyr Trp Glu Leu Ser Asn His Glu Val Met Lys Ala Ile Asn Asp
235         820                    825                    830
238 Gly Phe Arg Leu Pro Thr Pro Met Asp Cys Pro Ser Ala Ile Tyr Gln
239         835                    840                    845
242 Leu Met Met Gln Cys Trp Gln Gln Glu Arg Ala Arg Arg Pro Lys Phe
243         850                    855                    860
246 Ala Asp Ile Val Ser Ile Leu Asp Lys Leu Ile Arg Ala Pro Asp Ser
247 865                    870                    875                    880
250 Leu Lys Thr Leu Ala Asp Phe Asp Pro Arg Val Ser Ile Arg Leu Pro
251                    885                    890                    895
254 Ser Thr Ser Gly Ser Glu Gly Val Pro Phe Arg Thr Val Ser Glu Trp
255         900                    905                    910
258 Leu Glu Ser Ile Lys Met Gln Gln Tyr Thr Glu His Phe Met Ala Ala
259         915                    920                    925
262 Gly Tyr Thr Ala Ile Glu Lys Val Val Gln Met Thr Asn Asp Asp Ile
263         930                    935                    940
266 Lys Arg Ile Gly Val Arg Leu Pro Gly His Gln Lys Arg Ile Ala Tyr
267 945                    950                    955                    960
270 Ser Leu Leu Gly Leu Lys Asp Gln Val Asn Thr Val Gly Ile Pro Ile
271                    965                    970                    975
274 <210> SEQ ID NO: 2
275 <211> LENGTH: 9
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276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Synthetic Peptide
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285 1               5
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289 <211> LENGTH: 10
290 <212> TYPE: PRT
291 <213> ORGANISM: Artificial Sequence
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294 <223> OTHER INFORMATION: Synthetic Peptide
296 <400> SEQUENCE: 3
298 Arg Pro His Glu Arg Asn Gly Phe Thr Val
299 1               5                   10
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303 <211> LENGTH: 9
304 <212> TYPE: PRT
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Synthetic Peptide
310 <400> SEQUENCE: 4
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313 1               5
316 <210> SEQ ID NO: 5
317 <211> LENGTH: 9
318 <212> TYPE: PRT
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Synthetic Peptide
324 <400> SEQUENCE: 5
326 Asp Met Pro Ile Tyr Met Tyr Ser Val
327 1               5
330 <210> SEQ ID NO: 6
331 <211> LENGTH: 9
332 <212> TYPE: PRT
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Synthetic Peptide
338 <400> SEQUENCE: 6
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341 1               5
344 <210> SEQ ID NO: 7
345 <211> LENGTH: 9
346 <212> TYPE: PRT
347 <213> ORGANISM: Artificial Sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Synthetic Peptide
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352 <400> SEQUENCE: 7
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355 1               5
358 <210> SEQ ID NO: 8
359 <211> LENGTH: 9
360 <212> TYPE: PRT
361 <213> ORGANISM: Artificial Sequence
363 <220> FEATURE:
364 <223> OTHER INFORMATION: Synthetic Peptide
366 <400> SEQUENCE: 8
368 Thr Leu Ala Asp Phe Asp Pro Arg Val
369 1               5
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373 <211> LENGTH: 9
374 <212> TYPE: PRT
375 <213> ORGANISM: Artificial Sequence
377 <220> FEATURE:
378 <223> OTHER INFORMATION: Synthetic Peptide
380 <400> SEQUENCE: 9
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383 1               5
386 <210> SEQ ID NO: 10
387 <211> LENGTH: 13
388 <212> TYPE: PRT
389 <213> ORGANISM: Artificial Sequence
391 <220> FEATURE:
392 <223> OTHER INFORMATION: Synthetic Peptide
394 <400> SEQUENCE: 10
396 Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu
397 1               5                   10
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**VERIFICATION SUMMARY**          DATE: 08/04/2005
PATENT APPLICATION:  **US/10/511,273**     TIME: 14:17:16

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